CLAIMS

What is claimed is:

1	1. A method of controlling content usage in a personal communication device
2	using a decryption key that is divided into a plurality of key-shares, the method
3	comprises:
4	providing the personal communication device a first key-share in response
5	to a request for content; and
6	verifying credit of a user of the personal communication device;
7	providing the personal communication device a second key-share when the
8	credit is confirmed; and
9	combining the first and second key-shares with a third key share stored in
10	the personal communication device for use in decrypting content.
1	2. The method as claimed in claim 1 wherein the method includes:
2	monitoring usage of the content with a security processor of the personal
3	communications device; and
4	purging at least one of the key-shares from the personal communication
5	device when the usage exceeds one of a set of measurement parameters stored in
6	the personal communications device of the set.
1	3. The method as claimed in claim 2 further comprising receiving the request for
2	the content from the personal communication device, the request identifying the
3	content and the measurement parameters for the content.
1	4. The method as claimed in claim 1 further including:
2	receiving the content from a content server in a security server;
3	encrypting the content in the security server with the encryption key; and
4	providing the encrypted content from the security server to the personal
E	communication device ever a wireless communication link

- 5. The method as claimed in claim 4 wherein the content server and the security
- 2 server communicate over a non-secure network, and the method includes the
- 3 content server adding security to the content prior to providing the content to the
- 4 security server.
- 6. The method as claimed in claim 1 wherein the providing the first of the key-
- 2 shares is performed by a security server in communication with the personal
- 3 communication device.
- 1. The method as claimed in claim 1 wherein the third of the key-shares is stored
- 2 in a subscriber identity module (SIM) associated with the user, and wherein a
- 3 fourth of the key-shares is stored in the personal communication device and
- 4 associated with a security processor of the personal communication device, and
- 5 wherein the security processor combines the first, second, third and fourth key-
- 6 shares to decrypt the encrypted content.
- 8. The method as claimed in claim 1 wherein the verifying credit of the user and
- 2 the providing the second of the key-shares to the personal communication device
- 3 are performed by a finance server in communication with the personal
- 4 communication device.
- 9. The method as claimed in claim 1 wherein the plurality of key-shares are
- 2 Blakley-Shamir key-shares.
- 1 10. The method as claimed in claim 1 wherein the content comprises either video
- 2 content or music content.
- 1 11. The method as claimed in claim 1 further comprising generating a set of
- 2 measuring parameters comprising at least one of a date-limit, a run-time limit, and
- an iteration limit, and wherein the personal communication device monitors usage
- 4 of the content with respect to the measurement parameters and purges at least one

- of the key-shares when the usage exceeds one of the measurement parameters of
- 6 the set.
- 1 12. The method as claimed in claim 11 comprising a content server defining the
- 2 set of measurement parameters based on preferences of a content provider.
- 1 13. The method as claimed in claim 11 wherein the date-limit defines an end
- 2 calendar date for playing the content, the run-time limit defines a maximum
- 3 amount of time for playing portions of the content, and the iteration limit defines a
- 4 maximum number of times for playing the content or portions thereof.
- 1 14. The method as claimed in claim 12 wherein the measurement parameters have
- an authentication code associated therewith, and wherein a security processor of
- 3 the personal communication device purges at least one of the key-shares when the
- 4 authentication code fails to authenticate.
- 1 15. The method as claimed in claim 1 wherein the personal communication device
- 2 receives the first and second of the key-shares over a wireless communication
- 3 link.
- 1 16. A processing system for use in a personal communication device, the
- 2 processing system comprising:
- a security processor portion to combine a plurality of key-shares and
- 4 decrypt content for the processing system, the security processor portion including
- a monitor for usage of the content constructed and arranged to purge at least one
- of the key-shares when the usage exceeds a measurement parameter; and
- a communications processor portion to receive decrypted content from the
- 8 security processor portion and providing decrypted content for playing on the
- 9 personal communication device.

- 1 17. The processing system as claimed in claim 16 wherein the measurement
- 2 parameters have an authentication code associated therewith and wherein the
- 3 security processor portion purges at least one of the key-shares when the
- 4 authentication code fails to authenticate.
- 1 18. The processing system as claimed in claim 16 wherein the security processor
- 2 portion has a first of the key-shares stored therein, retrieves a second of the key-
- 3 shares from a subscriber identity module inserted into the personal
- 4 communication device, and receives a third of the key-shares from a finance
- 5 server when a user's credit is verified for use of the content.
- 1 19. The processing system as claimed in claim 16 wherein the measurement
- 2 parameters comprise at least one of a date-limit, a run-time limit, and an iteration
- 3 limit, and wherein the security processor portion monitors usage of the content
- with respect to the measurement parameters and purges at least one of the key-
- 5 shares when the usage exceeds one of the measurement parameters of the set.
- 1 20. The processing system as claimed in claim 16 further comprising an
- 2 applications processor portion to process applications running on the personal
- 3 communication device, and wherein the security processor portion,
- 4 communications processor portion and applications processor portion are part of a
- 5 processor area and fabricated on an application specific integrated circuit (ASIC).
- 1 21. A personal communication device comprising:
- a processor area to store first key-share therein;
- a module receiving area to receive a subscriber identity module (SIM), the
- 4 SIM having a second-key share stored therein; and
- an RF interface to receive a third key-share and encrypted content over a wireless communication link,
- wherein the processor area includes apparatus constructed and arranged to
- 8 combine the first, second and third key-shares to decrypt the encrypted content
- and monitor playing of the decrypted content against measurement parameters.

- 22. A personal communication device as claimed in claim 21 wherein the
- 2 measurement parameters have an authentication code associated therewith and
- wherein the processor area purges at least one of the key-shares when usage of the
- 4 content exceeds a measurement parameter, or when the authentication code fails
- 5 to authenticate.
- 23. A personal communication device as claimed in claim 21 wherein the
- 2 processor area receives the third key-share from a finance server when a user is
- approved for use of the content in accordance with the measurement parameters.